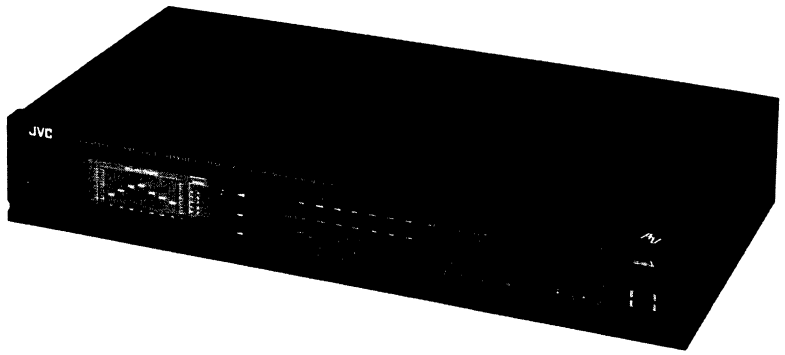
SEA-RM20BK

JVC Instruction Book

COMPUTERIZED REMOTE SYSTEM CONTROLLER WITH GRAPHIC EQUALIZER

SEA-RM20BK



For Customer Use:
Enter below the Model No. and Serial No. which is located either on the rear, bottom or side of the cabinet. Retain this information for future reference.

Model No. _____

Serial No. _____

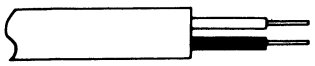
E30580-1293A

(No. 2893)

IMPORTANT (In the United Kingdom)
Mains Supply (AC 240 V~, 50 Hz only)

IMPORTANT

Do not make any connection to the Larger Terminal coded E or Green. The wires in the mains lead are coloured in accordance with the following code:



If these colours do not correspond with the terminal identifications of your plug, connect as follows:
Blue wire to terminal coded N (Neutral) or coloured Black.
Brown wire to terminal coded L (Live) or coloured Red.
If in doubt – consult a competent electrician.

BEMAERK: I stilling OFF er apparatet stadig forbundet med lysnettet hvis det ønskes fuldstændig afbrudt skal netledningen trækkes ud.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

IMPORTANT (CANADA ONLY/CANADA SEULEMENT)

CAUTION: TO PREVENT ELECTRIC SHOCK DO NOT USE THIS (POLARIZED) PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE

ATTENTION: POUR PREVENIR LES CHOCS ELECTRIQUES NE PAS UTILISER CETTE FICHE POLARISEE AVEC UN PROLONGATEUR, UNE PRISE DE COURANT OU UNE AUTRE SORTIE DE COURANT, SAUF SI LES LAMES PEUVENT ETRE INSEREES A FOND SANS EN LAISSER AUCUNE PARTIE A DECOUVERT.

CAUTION

To reduce the risk of electrical shocks, fire, etc.:
1. Do not remove screws, covers or cabinet.
2. Do not expose this appliance to rain or moisture.

Thank you for purchasing this JVC product.
Before you begin operating this unit, please read the instructions carefully to be sure you get the best possible performance.
If you have any questions, consult your JVC dealer.

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IMPORTANT

1. Installation
- Select a place which is level, dry and neither too cold nor too hot (between -5°C and 40°C/23°F and 104°F).
- Allow for good ventilation, since poor ventilation may cause trouble.

2. Power cord
- Do not handle the power cord with wet hands!
- When unplugging from the wall outlet, always grip the plug, not the power cord itself.

(No. 2893)

CONNECTION DIAGRAM

Example of the connections when using with JVC COMPU LINK components

(for connection details, refer to the provided sheet.)

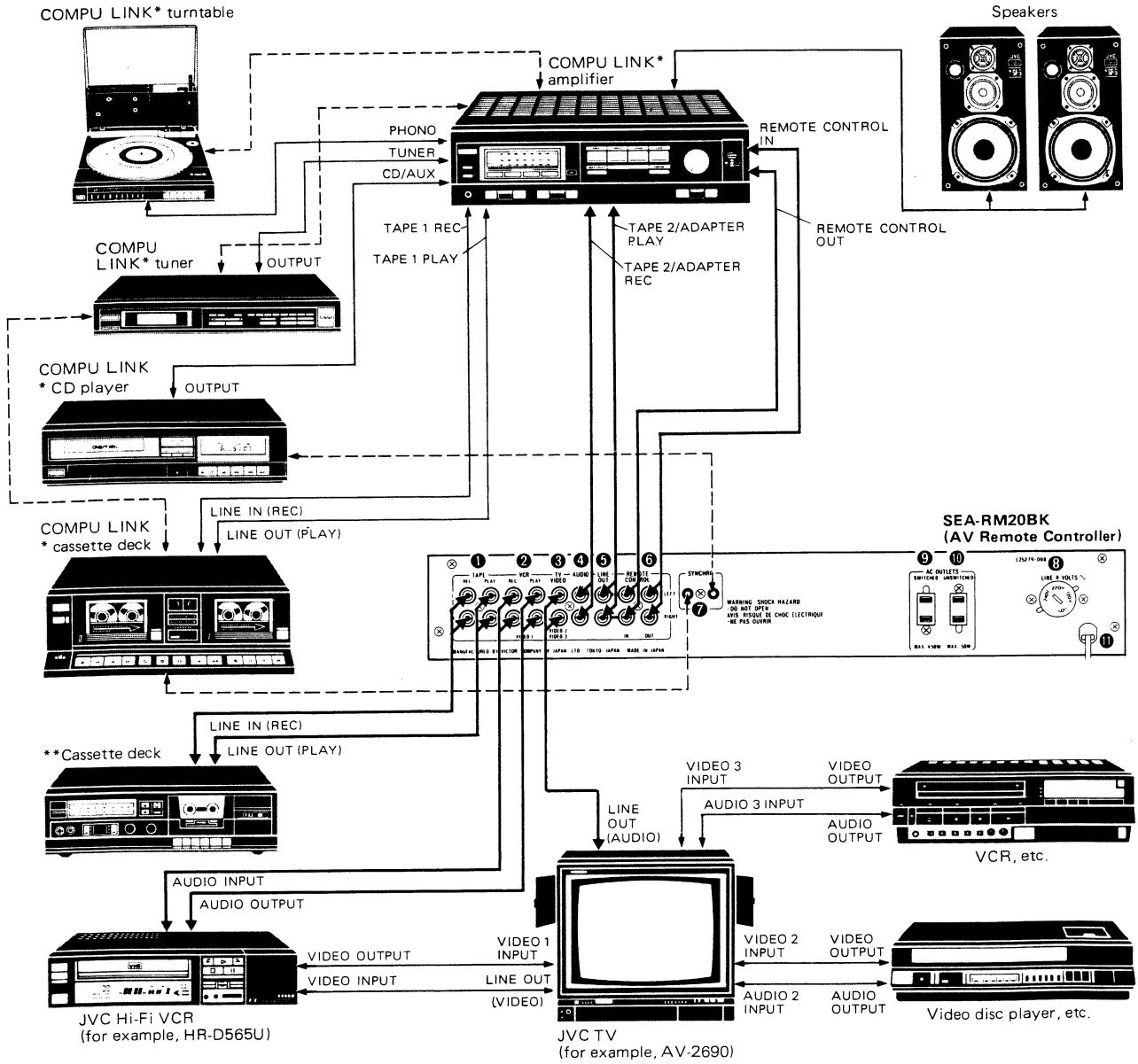


Fig. 1

Notes:

- **The equipment marked with "*" is a COMPU LINK component which has SYNCHRO terminals.**
- **◄----► is a remote cable with a 3.5 mm dia. plug.**
- **When making these connections, remove the U-shaped plugs inserted between the LINE OUT and the REMOTE CONTROL IN terminals.**
- **Do not connect the remote cable to the cassette deck marked with "**" even though it is a JVC COMPU LINK component.**

Example of connections when using with an ordinary amplifier

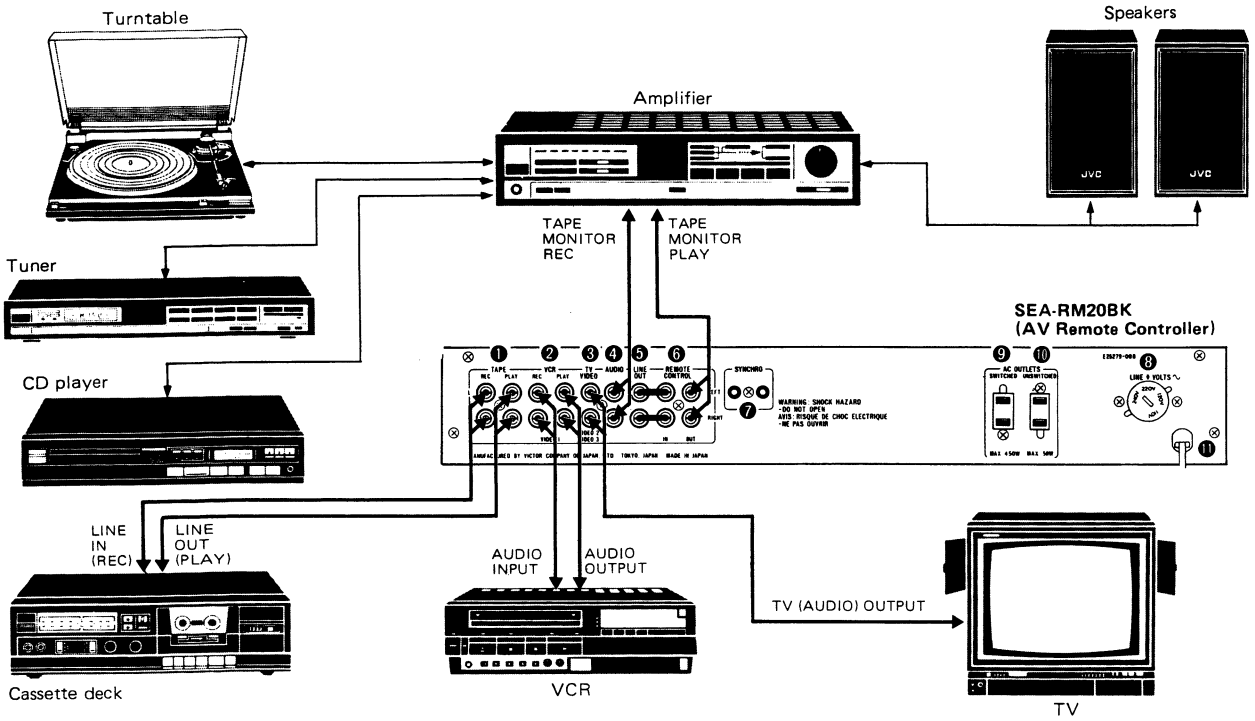


Fig. 2

❶ TAPE REC and PLAY terminals
Connect the deck's LINE IN (REC) terminals to REC, and the LINE OUT (PLAY) terminals to PLAY.

❷ VCR REC and PLAY terminals
Connect the VCR's audio input terminals to REC, and the VCR's audio output terminals to PLAY.

❸ TV/VIDEO terminals
Connect the TV's audio output terminals to these terminals.

❹ AUDIO terminals
When using the JVC COMPU LINK amplifier, connect the amplifier's TAPE 2/ADAPTER REC terminals to these terminals. (See Fig. 1.)
When using an ordinary amplifier, connect the TAPE MONITOR REC terminals of the amplifier to these terminals. (See Fig. 2.)

❺ LINE OUT terminals
When using the JVC COMPU LINK amplifier, connect the amplifier's TAPE 2/ADAPTER PLAY terminals to these terminals after removing the U-shaped plugs.
When using an ordinary amplifier, leave the U-shaped plugs connected. (See Fig. 2.)

❻ REMOTE CONTROL terminals
When using the JVC COMPU LINK amplifier, connect the amplifier's REMOTE CONTROL terminals to these terminals after removing the U-shaped plugs. (See Fig. 1.)

Note:

●Be careful to make the correct connections, connecting IN terminals to OUT, and OUT to IN.

When using an ordinary amplifier, connect the TAPE MONITOR PLAY terminals of the amplifier to the REMOTE CONTROL OUT terminals. (See Fig. 2.)

❼ SYNCHRO terminals
Connect the SEA-RM20BK's SYNCHRO terminals to the SYNCHRO terminals of the JVC COMPU LINK components, using the remote cables.

❽ Line voltage selector
(Not provided on units for the U.S.A., Canada, U.K., Australia, and Continental Europe.)

❾ SWITCHED AC OUTLET
Connect the component required to be switched on and off with the SEA-RM20BK.

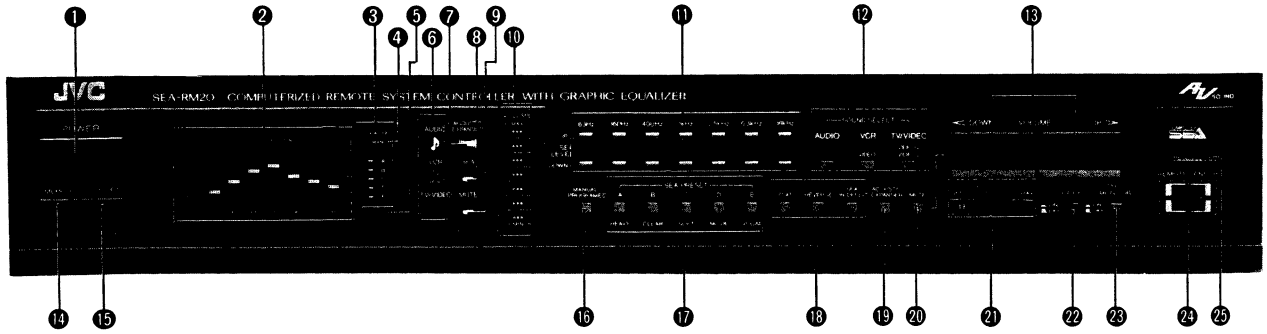
❿ UNSWITCHED AC OUTLET
(Not provided on units for the U.K., Australia, and Continental Europe.)

⓫ Power cord

Notes:

1. **Switch the power off when connecting any component.**
2. **When connecting the components, make the correct left and right channel connections. Reversed channels may degrade the stereo effect.**
3. **Even when the power button on this unit is off, the power cord should remain connected to a wall outlet because this allows the memory circuits to continue working, maintaining the unit's previous status.**
4. **Do not connect the remote cable to the cassette deck which is connected to the TAPE REC and PLAY terminals of this unit even if it is a JVC COMPU LINK component.**
5. **When using this unit with the amplifier, be sure to press the TAPE MONITOR button of an ordinary amplifier or the TAPE 2/ADAPTER button of the JVC COMPU LINK amplifier to ON.**

FRONT PANEL



❶ POWER
To turn on the power of this unit, press this button. The display section lights and the SWITCHED AC OUTLET is turned on. To turn off the power of this unit and the SWITCHED AC OUTLET, press it again.

Note:
- **Even if the power button of this unit is turned off, it will continue to consume about 10 W of electrical power as long as the power plug is not pulled from the wall outlet. When the power button is off, the memory circuits are activated so that the previous status (including SEA MANUAL patterns) will not be interrupted. This is known as the "Stand By" mode. When the power is turned off and turned on again, the previous condition will be recalled. In addition, even if a timer is used or there is an electrical failure, or even if the power plug is pulled out, the last status will be kept for 2 – 3 days at normal room temperature. If the period exceeds this limit, the previous condition will be cancelled. If this occurs, set it again.**

❷ SPECTRO PEAK INDICATOR/SEA GRAPHIC EQUALIZER indicator
This display doubles in mode as a SPECTRO PEAK INDICATOR and SEA GRAPHIC EQUALIZER indicator, and is switched between displays by pressing the SPI/SEA button.
SPECTRO PEAK INDICATOR: The output signal levels are analyzed for 7 frequency bands, whose center frequencies are identical to those of the 7 S.E.A. bands. This SPECTRO PEAK INDICATOR shows the output signal level in each frequency band. For easier viewing, the indicator is designed so that its response time is faster when rising and slower when decaying.
SEA GRAPHIC EQUALIZER: The bar rises and falls in response to the pressing of the corresponding SEA LEVEL buttons to show the S.E.A. level in each frequency band.

Notes:
- **The SEA GRAPHIC EQUALIZER indicator is shown for about 5 seconds immediately after the power is applied.**
- **The SEA GRAPHIC EQUALIZER indicator is shown for about 5 seconds after the S.E.A. level buttons, SEA PRESET buttons, SEA FLAT button, SEA REVERSE button, MANUAL/PROGRAMED button, or MEMORY button is pressed, even if the display has been set to the SPECTRO PEAK INDICATOR mode.**

❸ SEA PRESET indicator
Pressing the MANUAL/PROGRAMED button will cause indicator A, B, C, D, or E to light, according to which preset pattern was being used the last time the unit was in that particular mode (MANUAL or PROGRAMED). If no preset pattern was being used, no PRESET indicator will light. These indicators also light when an SEA PRESET button has been pressed, to select a preset pattern or to store a newly-created pattern in memory.
This indicator lights in both modes, SEA GRAPHIC EQUALIZER and SPECTRO PEAK INDICATOR and goes out when the SEA LEVEL UP/DOWN button, the FLAT button, or REVERSE button is pressed.

❹ MANUAL/PROGRAMED indicator
Pressing the MANUAL/PROGRAMED button causes "MANUAL" or "PROGRAMED" to light on the display, indicating which mode has been selected.

❺ MEMORY indicator
Pressing the MEMORY button lights "MEMORY" for about 5 seconds, thus indicating the unit is ready to store in memory the pattern you have created.

❻ Pictorial source display
This lights to show which source has been selected.

❼ ACOUSTIC EXPANDER indicator
This indicator lights when the ACOUSTIC EXPANDER button has been pressed to ON.

❽ SEA indicator
This indicator lights when the SEA ON/DEFEAT button has been pressed to ON.

❾ MUTE indicator
This indicator lights when the MUTE button has been pressed to ON.

❿ VOLUME indicator
This indicator shows the level of the output signal from the REMOTE CONTROL OUT terminals, and may be adjusted by pressing the VOLUME UP/DOWN buttons.

⓫ SEA LEVEL
The built-in graphic equalizer divides the audio spectrum into 7 frequency bands with center frequencies from 63 Hz to 16 kHz at intervals of 4/3 octave.
When the S.E.A. level is set to '0' (center position), frequency response is flat. The response in each band can be varied by ±10 dB by pressing the UP or DOWN SEA LEVEL buttons.

The buttons for different frequency bands can be pressed at the same time, and holding them down causes the level to continue rising or falling.

63 Hz: Raise to emphasize the very low bass response of organs, drums, and contrabass. It produces stable and solid sound with emphasis and eliminates the unclear sound response of low frequencies with de-emphasis.

160 Hz: Emphasize to obtain a more expanded low sound. De-emphasize to eliminate unclear sound caused by large or near empty listening rooms.

400 Hz: This frequency range is the base on which music is constructed. Emphasize to really put a punch in your music.

1 kHz: Most effective in emphasizing or de-emphasizing the human voice. Emphasize to cause the vocalist to be brought to the foreground, or de-emphasize to cause it to recede into the background.

2.5 kHz: This frequency stimulates the human ear. If the music sounds hard or metallic, de-emphasize.

8 kHz: Boost to add clarity to winds and strings. This frequency band varies the tonal expression, influencing the subtleties of the music.

16 kHz: Boosting this frequency range properly adds to the delicacy of highs, with cymbals and triangles resounding in a more ear-pleasing manner, and provides a feeling of extension. This frequency band can also be used to compensate for cartridge response since most moving-magnet cartridges have their resonance peaks in the frequency range from 10 kHz to 20 kHz.

⑫ **SOUND SELECT**

AUDIO: Press to hear or record sound from the unit connected to the AUDIO terminals.

VCR: Press to hear or record sound from the VCR connected to the VCR terminals.

TV/VIDEO: Press to hear or record sound from the TV connected to the TV/VIDEO terminals.

⑬ **VOLUME UP/DOWN**

Adjust the level of the output signal from the REMOTE CONTROL OUT terminals. Press the UP button once to increase the volume by one step, and the DOWN buton once to decrease it by one step; this level is shown by the VOLUME indicator. Holding down one of these buttons will cause the volume to progressively rise or fall.

⑭ **MEMORY**

Press this button and the MEMORY indicator will light for about 5 seconds. While it is lit, press one of the SEA PRESET buttons to store in memory the S.E.A. pattern currently being displayed.

⑮ **SPI/SEA**

Press to switch the indication between the SPECTRO PEAK INDICATOR mode and SEA GRAPHIC EQUALIZER indicator mode.

⑯ **MANUAL/PROGRAMED**

Press to switch between the MANUAL and PROGRAMED SEA pattern modes.

⑰ **SEA PRESET**

Press to store the displayed S.E.A. pattern in memory or to recall the preset S.E.A. pattern corresponding to the button pressed. While in the MANUAL mode, pressing the MEMORY button and then one of these 5 buttons will store the patterns you have created. Later, while in MANUAL mode, that pattern can be recalled by pressing the appropriate SEA PRESET button. Up to 5 original patterns can be stored for recall in this way.

A different set of S.E.A. patterns is available when in the PROGRAMED mode. These 5 patterns (HEAVY, CLEAR, SOFT, MOVIE and VOCAL) have been permanently stored in memory before the unit was shipped, and may not be replaced. So, up to 10 patterns may be recalled. For more details, refer to page 8.

⑱ **SEA buttons**

FLAT: Press this button for a flat response.

REVERSE: Press this button to reverse the pattern's characteristics.

SEA ON/DEFEAT: Press this button, and the SEA indicator will light and the sound will be S.E.A. compensated. Press it again, and the SEA indicator will go out and S.E.A. circuit will be bypassed. This function is convenient for checking the S.E.A.-compensated signal, and for comparing it with the original sound.

⑲ **ACOUSTIC EXPANDER**

Press this button, and the ACOUSTIC EXPANDER indicator will light and a monaural signal will be given a stereo effect. When applied to a stereo signal, an even more dramatic stereo effect results.

⑳ **MUTE**

Press this button, and the MUTE indicator will light and the sound will be instantaneously muted. Pressing it again returns the volume to its original level. Pressing the VOLUME UP/DOWN button also cancels the muting.

㉑ **DISPLAY LEVEL**

Adjusts the relative display position on the SPECTRO PEAK INDICATOR so that especially weak or strong level signals can be displayed in an easy-to-see position. This volume has no effect on the output sound level.

㉒ **SEA REC**

ON (▬): To record S.E.A.-compensated signals on the cassette deck connected to the TAPE terminals of this unit.

OFF (▟): To have the sound recorded on tapes bypass the S.E.A. circuit. If this button is set to ON, press it again to set to OFF.

㉓ **TAPE MONITOR**

ON (▬): Set to this position to listen to the cassette deck connected to the TAPE terminals of this unit. If your cassette deck is of the three-head type, you can monitor the recorded sound while recording by setting this button to ON.

OFF (▟): Keep this button set to this position, except when you want to listen to the cassette deck connected to the TAPE terminals of this unit.

㉔ **REMOTE SENSOR**

This sensor receives infrared signals from the remote control unit (RM-S20).

㉕ **RECEIVED indicator**

While infrared signals are being received from the remote control unit, this indicator lights.

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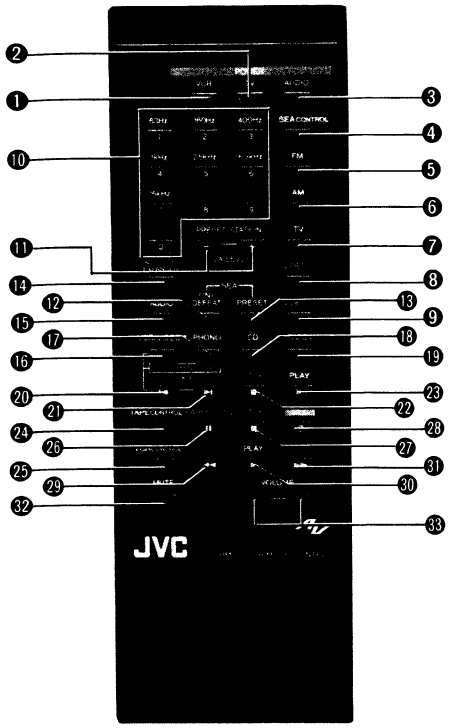
REMOTE CONTROL UNIT (RM-S20)

Point the front of the remote control unit at the remote control sensor on the SEA-RM20BK, the VCR or TV set and then press the buttons.



This explanation is applicable only when you use this unit in combination with audio components which have SYNCHRO terminals (COMPU LINK components) and a JVC TV (e.g. AV-2690) or VCR (e.g. HR-D565U). Otherwise, the components may not operate correctly. Before using the COMPU LINK components, make sure to connect each component with the remote cables and signal cords.

❶ **VCR (POWER)**
For use with the VCR. Press this button to switch the power on or off.

❷ **TV (POWER)**
For use with the TV. Press this button to switch the TV's power on or off.

❸ **AUDIO (POWER)**
Press this button to switch this unit's power on or off, and to turn on or off the SWITCHED AC OUTLET.

❹ **SEA CONTROL**
Press this button before adjusting the S.E.A. graphic equalizer using the equalizer control buttons.

❺ **FM**
Press this button to listen to an FM broadcast.

❻ **AM**
Press this button to listen to an AM broadcast.

❼ **TV**
Press this button to watch the TV connected to the TV/VIDEO terminals.

❽, ❾ **VIDEO 2/VIDEO 3**
These buttons correspond to the external INPUT terminals on the TV set labeled VIDEO 2 or VIDEO 3.
To watch the video equipment connected to these two pairs of terminals, press one of these two buttons so that the input signal from the TV/VIDEO terminals can be selected easily.

❿ **S.E.A. graphic equalizer control buttons/Buttons for direct access to FM/AM presets or TV channels**
Once the SEA CONTROL button has been pressed, a particular frequency band can be chosen for adjustment with the SEA LEVEL buttons.
When the FM or AM button has been pressed, these buttons can be used to select the preset station by pressing the preset station number. For example, to select preset station number 1, press button "0", then "1" or press "1" and wait for about 4 seconds.
When the TV button has been pressed, these buttons can be used to select a TV channel.

⓫ **PRESET STATION/SEA LEVEL**
When the SEA CONTROL button has been pressed, these buttons can be used to adjust the S.E.A. level of the frequency band selected by the S.E.A. graphic equalizer control buttons.
When the FM, AM, or TV button has been pressed, a preset station or TV channel can be selected by using these buttons to sequentially scan the available stations or channels in either direction.

⓬ **SEA ON/DEFEAT**
Press this button to activate or defeat the S.E.A. compensation circuit.

⓭ **SEA PRESET**
Press this button to select an S.E.A. preset pattern. Each time this button is pressed, the preset pattern the equalizer is set to successively changes in this order: MANUAL A – B – C – D – E – PROGRAMED A – B – C – D – E, then returns to the MANUAL A again.

⓮ **ACOUSTIC EXPANDER**
Press this button to switch the acoustic expander function on or off.

⓯ **AUDIO**
Press this button to select the source connected to the AUDIO terminals.

Source selectors

⓰ **VCR/VIDEO 1**
Press to listen to the VCR connected to the VCR terminals and select the external input "VIDEO 1" on the TV set at the same time.

⓱ **PHONO**
Press to listen to a record.

⓲ **CD**
Press to listen to a compact disc.

⓳ **TAPE 1**
Press to listen to a cassette tape.

Operation buttons for the compact disc player/turntable/cassette deck/VCR, as selected by the source selectors

⑳ , ㉑ **CHANNEL/SKIP (- CHANNEL +/SKIP (⏮ , ⏭))**

Press these buttons to skip tracks on compact discs, search for selections on cassette tapes, and change channels on the VCR's tuner.

Notes:

- **These buttons have no effect for the turntable.**
- **If these buttons are used with cassette decks not equipped with a music scan function, they will have no effect. However, when the TD-X201J cassette deck is connected, these buttons are able to function as rewind and fast forward buttons.**

㉒ **STOP (■)**

Press this button to stop playing the compact disc player, cassette deck, turntable, or VCR.

㉓ **PLAY (▶)**

Press this button to start playing the compact disc player, cassette deck, turntable, or VCR.

Operation buttons for the cassette deck/VCR selected by the TAPE CONTROL or VCR CONTROL

㉔ **TAPE CONTROL**

Press this button to operate the cassette deck connected to the TAPE 1 terminals of the COMPU LINK amplifier.

㉕ **VCR CONTROL**

Press this button to operate the VCR connected to the VCR terminals.

㉖ **PAUSE/STILL (▮▮)**

Press this button to pause during playback or recording. To release this function, press the PLAY button.

㉗ **STOP (■)**

Press this button to stop operation.

㉘ **REC (○)**

Press this button and the PLAY button simultaneously to record with the cassette deck or VCR.

㉙ **(◀◀)**

For the cassette deck: Press this button to quickly wind the tape from the right to left reel.

For the VCR: Press this button to take the VCR from the stop mode to the rewind mode. During playback, press this button for high-speed playback in the reverse direction (Shuttle search).

㉚ **PLAY (▶)**

Press this button to play a tape.

㉛ **(▶▶)**

For the cassette deck: Press this button to quickly wind the tape from the left to right reel.

For the VCR: Press this button to take the VCR from the stop mode to the fast forward mode. During playback, press this button for high-speed playback in the forward direction (Shuttle search).

㉜ **MUTE**

Press this button to instantly mute the sound, and press it again to return the sound to its original volume. Pressing the VOLUME buttons also cancels the muting.

㉝ **VOLUME**

Press the "+" side to increase the volume and the "-" side to decrease it.

Battery

- **How to install the batteries**

1. Slide the cover of the battery case in the direction of the arrow to remove it.
2. Install the provided batteries (UM-3), with their polarities properly placed.
3. Re-install the cover of the battery case.

- **Battery life**

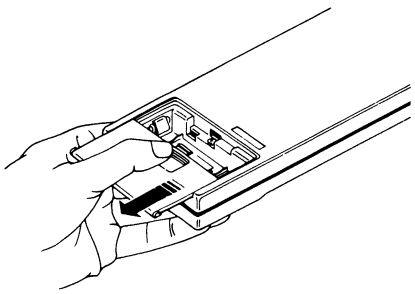
The batteries can be used for an average of 1 year.

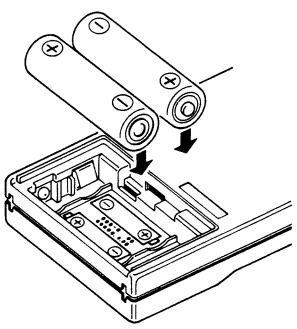
- **Battery replacement time**

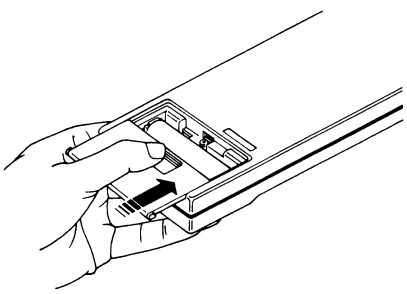
When the distance at which the remote control unit functions begins to decrease, replace both batteries (AA-size: UM-3, R6, 1.5 V).

- **How to operate the remote control unit**

When the remote control unit is directly in front of the remote sensor of this unit and is directed toward it, the remote control unit may be used from as far away as seven meters. But, when it is being used from a position far to one side or the other, this distance will be shortened.

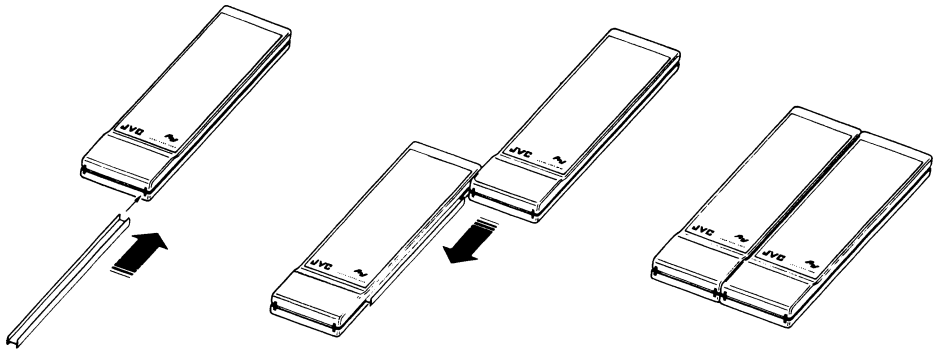






●**How to use the provided connection bar**
When using the RM-S20 with a compatibly-designed remote control unit of a TV or other component, connect the two units with the connection bar as follows.

Notes:
- **For safety, remove the bar when the units are separated.**
- **To protect yourself from the connection bar's exposed edges, remove the bar from the unit after draping it with a cloth.**



OPERATION

How to set the volume
(When a JVC COMPU LINK amplifier is connected to this unit.)
1. Press the VOLUME UP button of this unit to set the volume to MAX.
2. Select the desired source and set the volume of the amplifier louder than the optimum level. This level is then the maximum volume level selectable with this unit. Then adjust the volume to the desired level with the VOLUME UP/DOWN buttons.

Note:
- **Even when connecting an ordinary amplifier as shown in Fig. 2, the volume can be adjusted by the VOLUME controls of this unit.**

How to listen to broadcasts, records, compact discs or tapes (input through the AUDIO terminals)
Refer to the provided GUIDE TO OPERATE THE REMOTE CONTROL UNIT (RM-S20) and the instruction book of each unit.

How to listen to tapes connected to the TAPE terminals of this unit
Set the TAPE MONITOR button of this unit to on.

Note:
- **When the SEA REC button is set to on, the S.E.A. effect cannot be applied to the sound from the tape.**

How to listen to and watch the TV or VCR
Refer to the provided GUIDE TO OPERATE THE REMOTE CONTROL UNIT (RM-S20) and the instruction book of each unit.

S.E.A. pattern memory
For your own sound compensation and processing, you can use the 10 PROGRAMED and MANUAL preset S.E.A. patterns.

PROGRAMED
These 5 S.E.A. patterns were preset at the factory to offer suggested settings for various types of audio programs. Each preset pattern is shown below. After recalling these patterns, you can further change each frequency band to suit yourself. However, since they are representative patterns, the original, stored patterns will be unchanged.

HEAVY (PROGRAMED A)
Used for music with a heavy beat, such as rock music. Low frequencies are emphasized to produce a deeper, more powerful sound. Higher frequencies are also emphasized to enhance and bring clarity to the highs, including the percussive notes.

CLEAR (PROGRAMED B)
For crisp, clear sound with transparent highs. The low and middle frequencies that tend to be unclear are de-emphasized, and the middle and high frequencies that strengthen the vocal component of the music are emphasized.

SOFT (PROGRAMED C)
For background music or lower volume levels. The very low frequencies, which need boosting at low volume levels, are emphasized, and the stimulating effect of higher frequencies is diminished by de-emphasizing high frequencies.

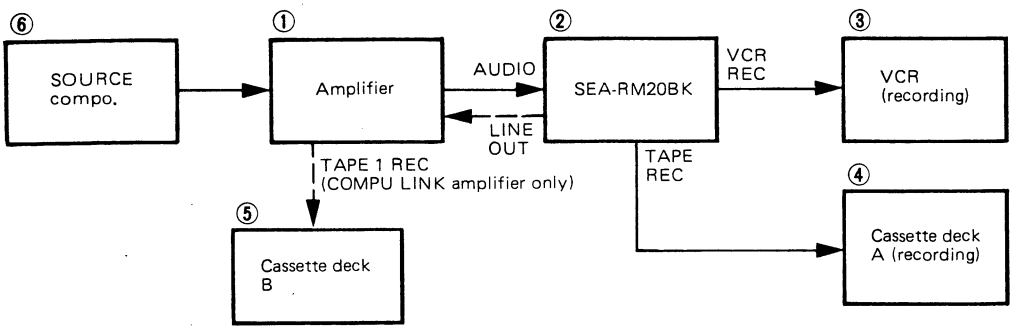
MOVIE (PROGRAMED D)
For TV, VCR, and videodisc sound. The low and high frequencies, which are usually of insufficient strength in the sound of these sources, are emphasized to produce a balanced, deeper sound. Also, the excessive brightness that is characteristic of these sources' sound is cut back by de-emphasizing the middle frequency band.

VOCAL (PROGRAMED E)
For music that is chiefly vocal, or speech. The middle frequencies, which carry the human voice, are emphasized, while surrounding frequencies are reduced. To accent the higher vocal notes, the highest frequencies are also boosted.

MANUAL
These 5 S.E.A. pattern memories are provided to allow you to create, store, and recall up to 5 S.E.A. patterns.
To store the S.E.A. pattern in memory, proceed as follows:
1. Set the S.E.A. pattern using the SEA LEVEL UP/DOWN buttons. This will cause the MANUAL indicator to light, if it has not been lit already.
2. Press the MEMORY button. The MEMORY indicator will light for 5 seconds.
3. During this period, press the appropriate SEA PRESET button to store the pattern in memory. The SEA PRESET indicator corresponding to the button just pressed will light, and the MEMORY indicator will go off.

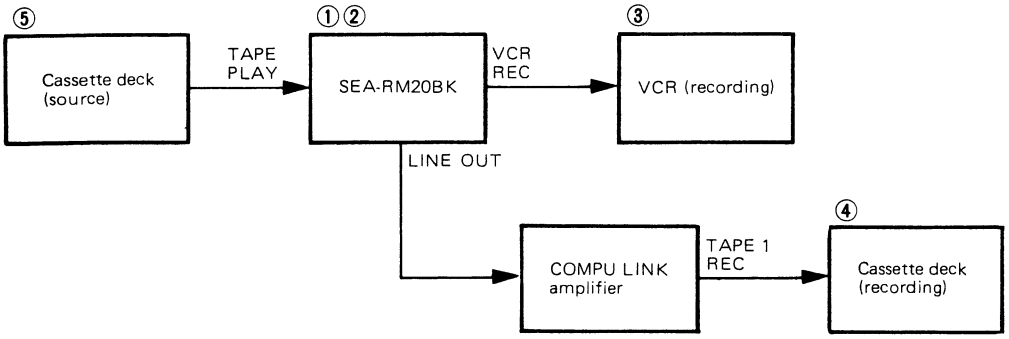
How to record
Operation

● Recording the source of the amplifier connected to the AUDIO terminals of the SEA-RM20BK



① Select the source which you want to record by switching the source selector of the amplifier connected to the AUDIO terminals of the SEA-RM20BK.
② If you want to record onto the VCR or cassette deck B with S.E.A. effect, set the S.E.A. pattern as required and press the SEA ON/DEFEAT button to on. In this case, the S.E.A. effect is to be applied on the LINE OUT signal and VCR REC signal, and the SEA REC button has no effect on the LINE OUT and VCR REC signals. When recording onto cassette deck A, the SEA REC button should also be pressed when you want to record with the S.E.A. effect.
③ To record onto the VCR connected to the VCR REC terminals of the SEA-RM20BK, operate the VCR for recording.
④ To record onto the cassette deck connected to the TAPE REC terminals of the SEA-RM20BK, operate the deck for recording.
⑤ To record onto the cassette deck connected to the TAPE 1 REC terminals of the JVC COMPU LINK amplifier, operate the deck for recording.
⑥ Operate the source component to begin playback.

● Recording from the cassette deck connected to the TAPE PLAY terminals of the SEA-RM20BK



① Press the TAPE MONITOR button to on.
② If you want to record onto the VCR or cassette deck with the S.E.A. effect, set the S.E.A. pattern as required and press the SEA ON/DEFEAT button to on and SEA REC button to off. In this case, the S.E.A. effect is applied to the LINE OUT signal and VCR REC signal.

Note:
If the SEA REC button has been turned on, the SEA effect is not applied to the LINE OUT and VCR REC signal.

③ To record onto the VCR connected to the VCR REC terminals of the SEA-RM20BK, operate the VCR for recording.
④ To record onto the cassette deck connected to the TAPE-1 REC terminals of the JVC COMPU LINK amplifier, operate the deck for recording.
⑤ Operate the source cassette deck to play.